

**AMENDMENT TO THE COMMITTEE PRINT**  
**OFFERED BY MR. WYNN**

Strike subtitle B of title V, and redesignate the subsequent subtitles accordingly.

At the end of title VI, insert the following new subtitle:

**1     **Subtitle G—Hydrogen Fuel Cells****

**2     SEC. 6701. DEFINITIONS.**

**3         As used in this subtitle—**

**4             (1) the term “critical technology” means a**  
**5             technology that, in the opinion of the Secretary, re-**  
**6             quires understanding and development in order to**  
**7             take the next step needed in the development of hy-**  
**8             drogen as an economic fuel or storage medium or in**  
**9             the development of fuel cell technologies as a trans-**  
**10            portation mode;**

**11            (2) the term “fuel cell vehicle” means a vehicle**  
**12            that derives all, or a significant part, of its propul-**  
**13            sion energy from 1 or more fuel cells; and**

**14            (3) the term “Secretary” means the Secretary**  
**15            of Energy.**



1           **PART 1—HYDROGEN AND FUEL CELL**  
2           **TECHNOLOGY RESEARCH AND DEVELOPMENT**  
3           **SEC. 6711. DEFINITIONS.**

4           As used in this part—

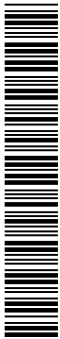
5                 (1) the term “advisory committee” means the  
6                 advisory committee established under section 6714;  
7                 and

8                 (2) the term “critical technical issue” means an  
9                 issue that, in the opinion of the Secretary, requires  
10                understanding and development in order to take the  
11                next step needed in the development of hydrogen as  
12                an economic fuel or storage medium or in the devel-  
13                opment of fuel cell technologies as a transportation  
14                mode.

15           **SEC. 6712. HYDROGEN AND FUEL CELL RESEARCH AND DE-**  
16                 **VELOPMENT.**

17           (a) PROGRAMS.—

18                 (1) HYDROGEN ENERGY RESEARCH AND DE-  
19                 VELOPMENT PROGRAM.—The Secretary shall, in con-  
20                 sultation with the private sector, conduct a research  
21                 and development program relating to the production,  
22                 storage, distribution, and use of hydrogen energy,  
23                 including fueling infrastructure, with the goal of en-  
24                 abling the private sector to demonstrate and com-  
25                 mercialize the use of hydrogen for transportation, in-



1 industrial, commercial, residential, and utility applica-  
2 tions.

3 (2) FUEL CELL TECHNOLOGY RESEARCH AND  
4 DEVELOPMENT PROGRAM.—The Secretary shall con-  
5 duct fuel cell technology research and development,  
6 with the goal of commercializing fuel cell vehicles  
7 and stationary fuel cells. The program shall include  
8 advanced materials, interfaces and electronics, lower  
9 cost and advanced design, balance of plant, en-  
10 hanced manufacturing processes, reforming capa-  
11 bility, and analysis and integration of systems.

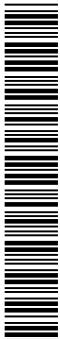
12 (b) ELEMENTS.—In conducting the programs author-  
13 ized by this section, the Secretary shall—

14 (1) initiate or accelerate research and develop-  
15 ment concerning critical technical issues that will  
16 contribute to the development of more economical  
17 and environmentally sound fuel cell vehicles and hy-  
18 drogen energy systems, including critical technical  
19 issues with respect to—

20 (A) production, with consideration of cost-  
21 effective and market-efficient production from  
22 renewable energy sources;

23 (B) transmission and distribution;

24 (C) storage, including storage of hydrogen  
25 for surface transportation applications; and



1 (D) use, including use in—

2 (i) surface transportation;

3 (ii) fuel cells and components;

4 (iii) fueling infrastructure;

5 (iv) stationary applications; and

6 (v) isolated villages, islands, and com-

7 munities in which other energy sources are

8 not available or are very expensive;

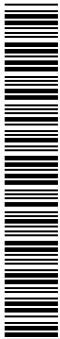
9 (2) give particular attention to resolving critical  
10 technical issues preventing the introduction of hy-  
11 drogen energy and fuel cell vehicles into the market-  
12 place; and

13 (3) survey private sector hydrogen energy and  
14 fuel cell research and development activities world-  
15 wide and take steps to ensure that such activities  
16 under this section—

17 (A) enhance rather than unnecessarily du-  
18 plicate any available research and development;  
19 and

20 (B) complement rather than displace or  
21 compete with the privately funded hydrogen en-  
22 ergy or fuel cell research and development ac-  
23 tivities of United States industry.

24 (c) FEDERAL FUNDING.—The Secretary shall carry  
25 out the research and development activities authorized



1 under this section using a competitive merit review proc-  
2 ess.

3 (d) COST SHARING.—

4 (1) IN GENERAL.—The Secretary shall require  
5 a commitment from non-Federal sources of at least  
6 20 percent of the cost of proposed research and de-  
7 velopment projects under this section.

8 (2) REDUCTION OR ELIMINATION.—The Sec-  
9 retary may reduce or eliminate the cost sharing re-  
10 quirement under paragraph (1)—

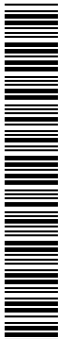
11 (A) if the Secretary determines that the re-  
12 search and development is of a basic or funda-  
13 mental nature; or

14 (B) for technical analyses, outreach activi-  
15 ties, and educational programs that the Sec-  
16 retary does not expect to result in a marketable  
17 product.

18 **SEC. 6713. COORDINATION AND CONSULTATION.**

19 (a) SECRETARY'S RESPONSIBILITY.—The Secretary  
20 shall have overall management responsibility for carrying  
21 out programs under this subtitle. In carrying out such  
22 programs, the Secretary, consistent with such overall man-  
23 agement responsibility—

24 (1) shall establish a central point for the coordi-  
25 nation of all hydrogen energy and fuel cell research,



1 development, and demonstration activities of the De-  
2 partment of Energy; and

3 (2) may use the expertise of any other Federal  
4 agency in accordance with subsection (b) in carrying  
5 out any activities under this subtitle, to the extent  
6 that the Secretary determines that any such agency  
7 has capabilities which would allow such agency to  
8 contribute to the purposes of this subtitle.

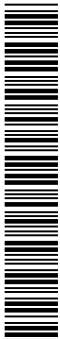
9 (b) ASSISTANCE.—The Secretary may, in accordance  
10 with subsection (a), obtain the assistance of any Federal  
11 agency upon written request, on a reimbursable basis or  
12 otherwise and with the consent of such agency. Each such  
13 request shall identify the assistance the Secretary con-  
14 siderers necessary to carry out any duty under this subtitle.

15 (c) CONSULTATION.—The Secretary shall consult  
16 with other Federal agencies as appropriate, and the advi-  
17 sory committee, in carrying out the Secretary's authorities  
18 pursuant to this subtitle.

19 **SEC. 6714. ADVISORY COMMITTEE.**

20 (a) ESTABLISHMENT.—There is hereby established a  
21 Technical Advisory Committee to advise the Secretary on  
22 the programs under this subtitle and under title II of the  
23 Hydrogen Future Act of 1996, to remain in existence for  
24 the duration of such programs.

25 (b) MEMBERSHIP.—



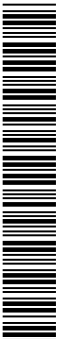
1           (1) IN GENERAL.—The advisory committee  
2       shall be comprised of not fewer than 9 nor more  
3       than 15 members appointed by the Secretary, and  
4       shall be comprised of such representatives from do-  
5       mestic industry, universities, professional societies,  
6       Government laboratories, and financial, environ-  
7       mental, and other organizations as the Secretary  
8       considers appropriate based on the Secretary's as-  
9       sessment of the technical and other qualifications of  
10      such representatives.

11           (2) TERMS.—

12           (A) IN GENERAL.—The term of a member  
13      of the advisory committee shall not be more  
14      than 3 years.

15           (B) STAGGERED TERMS.—The Secretary  
16      may appoint members of the advisory com-  
17      mittee in a manner that allows the terms of the  
18      members serving at any time to expire at  
19      spaced intervals so as to ensure continuity in  
20      the functioning of the advisory committee.

21           (C) REAPPOINTMENT.—A member of the  
22      advisory committee whose term expires may be  
23      reappointed.



1           (3) CHAIRPERSON.—The advisory committee  
2       shall have a chairperson, who shall be elected by the  
3       members from among their number.

4       (c) COOPERATION.—The heads of Federal agencies  
5       shall cooperate with the advisory committee in carrying  
6       out the requirements of this section and shall furnish to  
7       the advisory committee such information as the advisory  
8       committee considers necessary to carry out this section.

9       (d) REVIEW.—The advisory committee shall review  
10      and make any necessary recommendations to the Sec-  
11      retary on—

12           (1) the implementation and conduct of pro-  
13      grams under this part;

14           (2) the economic, technological, and environ-  
15      mental consequences of the deployment of tech-  
16      nologies under this part; and

17           (3) means for removing barriers to imple-  
18      menting the technologies and programs under this  
19      part.

20      (e) RESPONSE TO RECOMMENDATIONS.—The Sec-  
21      retary shall consider, but need not adopt, any rec-  
22      ommendations of the advisory committee under subsection  
23      (d). The Secretary shall either describe the implementa-  
24      tion, or provide an explanation of the reasons that any





1 such recommendations will not be implemented, in the re-  
2 port to Congress under section 6715.

3 (f) SUPPORT.—The Secretary shall provide such  
4 staff, funds, and other support as may be necessary to  
5 enable the advisory committee to carry out its functions.

6 **SEC. 6715. REPORT TO CONGRESS.**

7 (a) REPORT.—

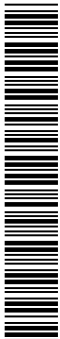
8 (1) REQUIREMENT.—Not later than 1 year  
9 after the date of enactment of this Act and bienni-  
10 ally thereafter, the Secretary shall transmit to Con-  
11 gress a detailed report on the status and progress of  
12 the programs authorized under this part.

13 (2) CONTENTS.—A report under paragraph (1)  
14 shall include, in addition to any views and rec-  
15 ommendations of the Secretary—

16 (A) an assessment of the effectiveness of  
17 the programs authorized under this subtitle;

18 (B) recommendations of the advisory com-  
19 mittee for any improvements in the program  
20 that are needed, including recommendations for  
21 additional legislation; and

22 (C) to the extent practicable, an analysis of  
23 Federal, State, local, and private sector  
24 hydrogen- and fuel cell-related research, devel-  
25 opment, and demonstration activities to identify



1           productive areas for increased intergovern-  
2           mental and private-public sector collaboration.

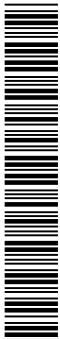
3   **SEC. 6716. NATIONAL ACADEMY OF SCIENCES REVIEW.**

4       Beginning 2 years after the date of enactment of this  
5 Act, and every 4 years thereafter, the National Academy  
6 of Sciences shall perform a review of the progress made  
7 through the programs and activities authorized under this  
8 subtitle and title II of the Hydrogen Future Act of 1996,  
9 and shall report to Congress on the results of such re-  
10 views.

11   **SEC. 6717. AUTHORIZATION OF APPROPRIATIONS FOR HY-**  
12                   **DROGEN PRODUCTION, STORAGE, AND**  
13                   **TRANSPORT.**

14       There are authorized to be appropriated to carry out  
15 hydrogen production, storage, and transport activities  
16 under this part (in addition to any amounts made avail-  
17 able for such purposes under other Acts)—

- 18           (1) \$200,000,000 for fiscal year 2004;  
19           (2) \$200,000,000 for fiscal year 2005;  
20           (3) \$200,000,000 for fiscal year 2006;  
21           (4) \$200,000,000 for fiscal year 2007;  
22           (5) \$100,000,000 for fiscal year 2008;  
23           (6) \$100,000,000 for fiscal year 2009;  
24           (7) \$100,000,000 for fiscal year 2010;  
25           (8) \$75,000,000 for fiscal year 2011;



1 (9) \$75,000,000 for fiscal year 2012; and

2 (10) \$50,000,000 for fiscal year 2013.

3 **SEC. 6718. AUTHORIZATION OF APPROPRIATIONS FOR**  
4 **FUEL CELL TECHNOLOGIES.**

5 There are authorized to be appropriated to the Sec-  
6 retary for fuel cell technology activities under this part—

7 (1) \$200,000,000 for fiscal year 2004;

8 (2) \$250,000,000 for fiscal year 2005;

9 (3) \$250,000,000 for fiscal year 2006;

10 (4) \$200,000,000 for fiscal year 2007;

11 (5) \$100,000,000 for fiscal year 2008;

12 (6) \$100,000,000 for fiscal year 2009;

13 (7) \$100,000,000 for fiscal year 2010;

14 (8) \$75,000,000 for fiscal year 2011;

15 (9) \$75,000,000 for fiscal year 2012; and

16 (10) \$50,000,000 for fiscal year 2013.

17 **PART 2—DEMONSTRATION PROGRAMS**

18 **SEC. 6721. FUEL CELL VEHICLE DEMONSTRATION PRO-**  
19 **GRAM.**

20 (a) PROGRAM.—The Secretary shall establish a cost  
21 shared program to purchase, operate, and evaluate fuel  
22 cell vehicles in integrated service in Federal, tribal, State,  
23 local, or private fleets to demonstrate the viability of fuel  
24 cell vehicles in commercial use in a range of climates, duty  
25 cycles, and operating environments.



1 (b) COOPERATIVE AGREEMENTS.—In carrying out  
2 the program, the Secretary may enter into cooperative  
3 agreements with Federal, tribal, State, local agencies, or  
4 private entities and manufacturers of fuel cell vehicles.

5 (c) COMPONENTS.—The program shall include the  
6 following components:

7 (1) SELECTION OF PILOT FLEET SITES.—

8 (A) IN GENERAL.—The Secretary shall—

9 (i) consult with fleet managers to  
10 identify potential fleet sites; and

11 (ii) select 10 or more sites at which to  
12 carry out the program.

13 (B) CRITERIA.—The criteria for selecting  
14 fleet sites shall include—

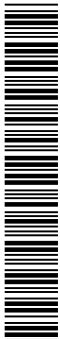
15 (i) geographic diversity;

16 (ii) diversity in the levels of traffic  
17 congestion;

18 (iii) a wide range of climates, duty cy-  
19 cles, and operating environments;

20 (iv) the interest and capability of the  
21 participating agencies or entities;

22 (v) the appropriateness of a site for  
23 refueling infrastructure and for maintain-  
24 ing the fuel cell vehicles; and



1 (vi) such other criteria as the Sec-  
2 retary determines to be necessary to the  
3 success of the program.

4 (C) FEDERAL SITES.—At least 2 of the  
5 projects must be at Federal sites.

6 (2) FUELING INFRASTRUCTURE.—

7 (A) IN GENERAL.—The Secretary shall  
8 support the installation of the necessary refuel-  
9 ing infrastructure at the fleet sites.

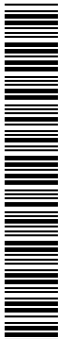
10 (B) CO-PRODUCTION OF HYDROGEN AND  
11 ELECTRICITY PILOT PROJECTS.—Priority shall  
12 be given to pilot projects that integrate—

13 (i) both vehicles and stationary elec-  
14 tricity production; or

15 (ii) hydrogen production, storage, and  
16 distribution systems with end-use applica-  
17 tions.

18 (3) PURCHASE OF FUEL CELL VEHICLES.—The  
19 Secretary, in consultation with the participating  
20 agencies, tribal, State, or local agency, academic in-  
21 stitution, or private entity, shall purchase fuel cell  
22 vehicles for the program by competitive bid.

23 (4) OPERATION AND MAINTENANCE PERIOD.—  
24 The fuel cell vehicles shall be operated and main-  
25 tained by the participating agencies or entities in



1 regular duty cycles for a period of not less than 12  
2 months.

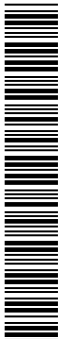
3 (5) DATA COLLECTION, ANALYSIS, AND DIS-  
4 SEMINATION.—

5 (A) AGREEMENTS.—The Secretary shall  
6 enter into agreements with participating agen-  
7 cies, academic institutions, or private sector en-  
8 tities providing for the collection of proprietary  
9 and nonproprietary information with the pro-  
10 gram.

11 (B) PUBLIC AVAILABILITY.—The Secretary  
12 shall make available to all interested persons  
13 technical nonproprietary information and anal-  
14 yses collected under an agreement under sub-  
15 paragraph (A).

16 (C) PROPRIETARY INFORMATION.—The  
17 Secretary shall not disclose to the public any  
18 proprietary information or analyses collected  
19 under an agreement under subparagraph (A).

20 (6) TRAINING AND TECHNICAL SUPPORT.—The  
21 Secretary shall provide such training and technical  
22 support as fleet managers and fuel cell vehicle oper-  
23 ators require to assure the success of the program,  
24 including training and technical support in—



1 (A) the installation, operation, and maintenance of fueling infrastructure;

2 (B) the operation and maintenance of fuel cell vehicles; and

3 (C) data collection.

4 (d) COORDINATION.—The Secretary shall ensure coordination of the program with other Federal fuel cell demonstration programs to improve efficiency, share infrastructure, and avoid duplication of effort.

5 (e) COST SHARING.—

6 (1) IN GENERAL.—The Secretary shall require a 50 percent financial commitment from participating private-sector companies or other non-Federal sources for participation in the program.

7 (2) COMMITMENTS.—The Secretary may require a financial commitment from participating agencies or entities based on the avoided costs for purchase, operation, and maintenance of traditional vehicles and refueling infrastructure.

8 (f) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to carry out this section—

9 (1) \$40,000,000 for fiscal year 2004;

10 (2) \$100,000,000 for fiscal year 2005;

11 (3) \$115,000,000 for fiscal year 2006;



- 1 (4) \$115,000,000 for fiscal year 2007;
- 2 (5) \$95,000,000 for fiscal year 2008;
- 3 (6) \$30,000,000 for fiscal year 2009; and
- 4 (7) \$15,000,000 for fiscal year 2010.

5 **SEC. 6722. HEAVY DUTY FUEL CELL VEHICLE FLEET DEM-**  
6 **ONSTRATION PROGRAM.**

7 (a) ESTABLISHMENT OF PROGRAM.—The Secretary,  
8 in consultation with other Federal agencies, shall establish  
9 a program for entering into cooperative agreements with  
10 the private sector to demonstrate fuel cell-powered buses,  
11 trucks and other heavy duty vehicles.

12 (b) COST SHARING.—The non-Federal contribution  
13 for activities funded under this section shall be not less  
14 than—

15 (1) 20 percent for fuel infrastructure develop-  
16 ment activities; and

17 (2) 50 percent for demonstration activities and  
18 for development activities not described in paragraph

19 (1).

20 (c) REPORTS TO CONGRESS.—Not later than 2 years  
21 after the date of the enactment of this Act, and not later  
22 than October 1, 2009, the Secretary, in consultation with  
23 other Federal agencies, shall transmit to the appropriate  
24 congressional committees a report that—





1 (1) evaluates the process of developing infra-  
2 structure to accommodate fuel cell-powered buses,  
3 trucks, and heavy duty vehicles; and

4 (2) assesses the results of the demonstration  
5 program under this section.

6 (d) AUTHORIZATION OF APPROPRIATIONS.—There  
7 are authorized to be appropriated to the Secretary for car-  
8 rying out this demonstration program, to remain available  
9 until expended—

10 (1) \$60,000,000 for fiscal year 2004;

11 (2) \$90,000,000 for fiscal year 2005;

12 (3) \$175,000,000 for fiscal year 2006;

13 (4) \$175,000,000 for fiscal year 2007;

14 (5) \$175,000,000 for fiscal year 2008;

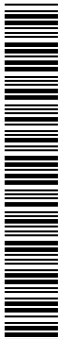
15 (6) \$135,000,000 for fiscal year 2009; and

16 (7) \$40,000,000 for fiscal year 2010.

17 **SEC. 6723. STATIONARY FUEL CELL GRANT DEMONSTRATION PROGRAM.**  
18

19 (a) SOLICITATION OF PROPOSALS.—The Secretary  
20 shall solicit proposals for projects demonstrating hydrogen  
21 technologies needed to operate fuel cells in Federal, tribal,  
22 State, and local government, and academic, and private  
23 stationary applications.

24 (b) COMPETITIVE EVALUATION.—Each proposal sub-  
25 mitted in response to the solicitation under this section



1 shall be evaluated on a competitive basis using peer re-  
2 view. The Secretary is not required to make an award  
3 under this section in the absence of a meritorious pro-  
4 posal.

5 (c) PREFERENCE.—The Secretary shall give pref-  
6 erence, in making an award under this section, to pro-  
7 posals that—

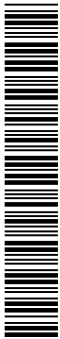
8 (1) are submitted jointly from consortia includ-  
9 ing academic institutions, industry, State or local  
10 governments, and Federal laboratories; and

11 (2) reflect proven experience and capability with  
12 technologies relevant to the projects proposed.

13 (d) NON-FEDERAL SHARE.—

14 (1) IN GENERAL.—Except as provided in para-  
15 graph (2), the Secretary shall require a commitment  
16 from non-Federal sources of at least 50 percent of  
17 the costs directly relating to a demonstration project  
18 under this section.

19 (2) REDUCTION.—The Secretary may reduce  
20 the non-Federal requirement under paragraph (1) if  
21 the Secretary determines that the reduction is ap-  
22 propriate considering the technological risks involved  
23 in the project.



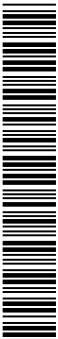
1 (e) AUTHORIZATION OF APPROPRIATIONS.—There  
2 are authorized to be appropriated to carry out this  
3 section—

- 4 (1) \$45,000,000 for fiscal year 2004;  
5 (2) \$85,000,000 for fiscal year 2005;  
6 (3) \$95,000,000 for fiscal year 2006;  
7 (4) \$95,000,000 for fiscal year 2007;  
8 (5) \$65,000,000 for fiscal year 2008;  
9 (6) \$50,000,000 for fiscal year 2009; and  
10 (7) \$15,000,000 for fiscal year 2010.

11 **PART 3—FEDERAL PURCHASE PROGRAM**

12 **SEC. 6731. PROCUREMENT OF FUEL CELL VEHICLES.**

13 (a) TRANSITION PLAN.—Each agency of the Federal  
14 Government that maintains a fleet of motor vehicles shall  
15 develop a plan for a transition of the fleet to vehicles pow-  
16 ered by fuel cell technology, including plans for necessary  
17 fueling infrastructure, training, and maintenance and op-  
18 eration of such vehicles. Each such plan shall include im-  
19 plementation beginning no later than fiscal year 2008.  
20 Each plan shall incorporate and build on the results of  
21 completed and ongoing Federal demonstration programs,  
22 and shall include additional demonstration programs and  
23 pilot programs as necessary to test or investigate available  
24 technologies and transition procedures.



1 (b) REQUIREMENT.—The Secretary, in collaboration  
2 with the General Services Administration and other Fed-  
3 eral agencies, shall purchase and place 20,000 hydrogen-  
4 powered fuel cell vehicles by 2010 in Federal fleets and  
5 the requisite fueling infrastructure.

6 (c) EXCEPTIONS.—The head of an executive agency  
7 is not required to procure a fuel cell vehicle under sub-  
8 section (b) if—

9 (1) no fuel cell vehicle is available that meets  
10 the requirements of the executive agency; or

11 (2) it is not practicable to do so for a particular  
12 agency or instance.

13 (d) PROCUREMENT PLANNING.—The head of an ex-  
14 ecutive agency shall incorporate into the specifications for  
15 all designs and procurements, and into the factors for the  
16 evaluation of offers received for the procurement, criteria  
17 for fuel cell vehicles that are consistent with vehicle pur-  
18 chasing requirements.

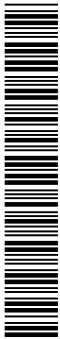
19 (e) AUTHORIZATION OF APPROPRIATIONS.—There  
20 are authorized to be appropriated to carry out this  
21 section—

22 (1) \$10,000,000 for fiscal year 2005;

23 (2) \$15,000,000 for fiscal year 2006;

24 (3) \$50,000,000 for fiscal year 2007;

25 (4) \$150,000,000 for fiscal year 2008;



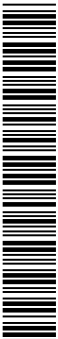
- 1 (5) \$175,000,000 for fiscal year 2009;  
2 (6) \$170,000,000 for fiscal year 2010;  
3 (7) \$110,000,000 for fiscal year 2011;  
4 (8) \$65,000,000 for fiscal year 2012; and  
5 (9) \$55,000,000 for fiscal year 2013.

6 **SEC. 6732. ESTABLISHMENT OF AN INTERAGENCY TASK**  
7 **FORCE.**

8 (a) ESTABLISHMENT.—Not later than 120 days after  
9 the date of enactment of this Act, the Secretary shall es-  
10 tablish an interagency task force led by the Secretary's  
11 designee and comprised of representatives of—

- 12 (1) the Office of Science and Technology Policy;  
13 (2) the Department of Transportation;  
14 (3) the Department of Defense;  
15 (4) the Department of Commerce (including the  
16 National Institute of Standards and Technology);  
17 (5) the Environmental Protection Agency;  
18 (6) the National Aeronautics and Space Admin-  
19 istration;  
20 (7) the Department of Homeland Security; and  
21 (8) other Federal agencies as appropriate.

22 (b) DUTIES.—The task force shall develop a plan for  
23 carrying out this part and part 2.



1 (c) AUTHORIZATION OF APPROPRIATIONS.—There  
2 are authorized to be appropriated such sums as may be  
3 necessary to carry out the requirements of this section.

4 **PART 4—MISCELLANEOUS**

5 **SEC. 6741. DEPARTMENT OF ENERGY STUDY.**

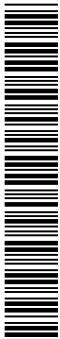
6 The Secretary, in consultation with other Federal  
7 agencies, as appropriate, shall identify barriers to the in-  
8 troduction of portable fuel cells, including regulatory bar-  
9 riers, and take appropriate action to eliminate such bar-  
10 riers in a timely fashion.

11 **SEC. 6742. DEPARTMENT OF ENERGY STRATEGY.**

12 (a) CRITICAL TECHNOLOGY PLAN.—Not later than  
13 1 year after the date of enactment of this Act, the Sec-  
14 retary shall publish and transmit to Congress a plan iden-  
15 tifying critical technologies, enabling strategies and appli-  
16 cations, technical targets, and associated timeframes that  
17 support the commercialization of hydrogen-fueled fuel cell  
18 vehicles.

19 (b) CONTENTS.—The plan shall describe the activi-  
20 ties of the Department of Energy, including a research,  
21 development, demonstration, and commercial application  
22 program for developing technologies to support—

23 (1) the production and deployment of 100,000  
24 hydrogen-fueled fuel cell vehicles in the United



1 States by 2010 and 2,500,000 of such vehicles by  
2 2020 and annually thereafter; and

3 (2) the integration of hydrogen activities, with  
4 associated technical targets and timetables for the  
5 development of technologies to provide for the sale  
6 of hydrogen at fueling stations in the United States  
7 by 2010 and 2020, respectively.

8 (c) PROGRESS REVIEW.—The Secretary shall include  
9 in each annual budget submission a review of the progress  
10 toward meeting the numerical targets in subsection (b).

